R. Hutson

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/467,100

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2 3	(1)	General Information: ENTERED
4	,-,	ENIERED
5 6		(i) APPLICANT: Coleman, Roger Stuart, Susan G.
7 8 9		(ii) TITLE OF INVENTION: A NOVEL HUMAN JAK2 KINASE
10 11		(iii) NUMBER OF SEQUENCES: 5
12 13 14		(iv) CORRESPONDENCE ADDRESS:(A) ADDRESSEE: INCYTE PHARMACEUTICALS, INC.(B) STREET: 3174 Porter Drive
15 16		(C) CITY: Palo Alto (D) STATE: CA
17 18		(E) COUNTRY: US (F) ZIP: 94304
19	·	(**) COMPUTED DEADADLE FORM
20		(v) COMPUTER READABLE FORM:
21		(A) MEDIUM TYPE: Diskette
22		(B) COMPUTER: IBM Compatible
23		(C) OPERATING SYSTEM: DOS
24 25		(D) SOFTWARE: FastSEQ Version 1.5
26		(vi) CURRENT APPLICATION DATA:
27		(A) APPLICATION NUMBER: 09/467,100
28		(B) FILING DATE:
29		(C) CLASSIFICATION:
30		(C) CHABSIFICATION:
31		(vii) PRIOR APPLICATION DATA:
32		(A) APPLICATION NUMBER: US/08/567,508
33		(B) FILING DATE: 05-DEC-1995
34		(5) 112110 2112. 03 220 1333
35		(viii) ATTORNEY/AGENT INFORMATION:
36		(A) NAME: Billings, Lucy J.
37		(B) REGISTRATION NUMBER: 36,749
38		(C) REFERENCE/DOCKET NUMBER: PF-0049US
39		(0) 100 000 000 000 000 000 000 000 000 0
40		(ix) TELECOMMUNICATION INFORMATION:
41		(A) TELEPHONE: 650-855-0555
42		(B) TELEFAX: 650-845-4166
43		• • • • • • • • • • • • • • • • • • • •
44		
45		(2) INFORMATION FOR SEQ ID NO:1:
46		

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47
          (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 4482 base pairs
48
             (B) TYPE: nucleic acid
49
             (C) STRANDEDNESS: single
50
             (D) TOPOLOGY: linear
51
52
53
          (ii) MOLECULE TYPE: cDNA
         (vii) IMMEDIATE SOURCE:
55
            (A) LIBRARY: Placenta
56
             (B) CLONE: 179527
57
58
59
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
60
     CCACGCGTCC GGTTGCCAAC CCGCAGGCGA CTGGGCGCTT CATCCCACCC TCACCCCTTT
61
     CCAGCCAAGG TGGCTGATCG GAGTCAGGCT CTCGAGGTCG CATTGCCACG AAACGGNGTG
62
     TGTGAGCGCG TTGTCCCCGG NCCCCGGGGC CACTTCCCCT CGGCCTAGNA GACTGGACTG
     GGGAAGGACG GGTCTGTTGT ACCCGGGAGG TGGAAGGAAA AGCCGAAAGC GGAGAAGTGT
     GCGGGAGGG AGTCTCCGCG CGGAGGNAGA CCGGNCTCCT CCAGTGCAGG TTGTGCGCTG
65
                                                                          300:
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66
                                                                          360
     ATGACAGAAA TGGAGGGAAC ATCCACCTCT TCTATATATC AGAATGGTGA TATTTCTGGA
67
                                                                          420
     AATGCCAATT CTATGAAGCA AATAGATCCA GTTCTTCAGG TGTATCTTTA CCATTCCCTT
68
                                                                          480
     GGGAAATCTG AGGCAGATTA TCTGACCTTT CCATCTGGGG AGTATGTTGG AGAAGAAATC
69
     TGTATTGCTG CTTCTAAAGC TTGTGGTATC ACACCTGTGT ATCATAATAT GTTTGCTTTA
70
     ATGAGTGAAA CAGAAAGGAT CTGGTATCCA CCCAACCATG TCTTCCATAT AGATGAGTCA
71
     ACCAGGCATA ATGTACTCTA CAGAATAAGA TTTTACTTTC CTCGTTGGTA TTGCAGTGGC
72
73
     AGCAACAGAG CCTATCGGCA TGGAATATCT CGAGGTGCTG AAGCTCCTCT TCTTGATGAC
74
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75
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     AGAATAGCCA AAGAAAACGA TCAAACCCCA CTGGCCATCT ATAACTCTAT CAGCTACAAG
76
77
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78
                                                                         1080
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84
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     GCACCTCCAG CCGTGCTTGA AAATATACAA AGCAACTGTC ATGGCCCAAT TTCGATGGAT 1560
     TTTGCCATTA GTAAACTGAA GAAAGCAGGT AATCAGACTG GACTGTATGT ACTTCGATGC
87
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     GAATATAAAC ACTGTTTGAT TACAAAAAAT GAGAATGAAG AGTACAACCT CAGTGGGACA
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     AAGAAGAACT TCAGCAGTCT TAAAGATCTT TTGAATTGTT ACCAGATGGA AACTGTTCGC
90
                                                                         1800
     TCAGACAATA TAATTTTCCA GTTTACTAAA TGCTGTCCCC CAAAGCCAAA AGATAAATCA
91
                                                                         1860
     AACCTTCTAG TCTTCAGAAC GAATGGTGTT TCTGATGTAC CAACCTCACC AACATTACAG
92
                                                                         1920
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93
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94
     GGAGACTACG GTCAACTGCA TGAAACAGAA GTTCTTTTAA AAGTTCTGGA TAAAGCACAC
95
     AGGAACTATT CAGAGTCTTT CTTTGAAGCA GCAAGTATGA TGAGCAAGCT TTCTCACAAG
96
     CATTTGGTTT TAAATTATGG AGTATGTGTC TGTGGAGACG AGAATATTCT GGTTCAGGAG
97
                                                                        2220
98
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                                                                        2280
99
     TTATGGAAAC TTGAAGTTGC TAAACAGTTG GCATGGGCCA TGCATTTTCT AGAAGAAAAC
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152

RAW SEQUENCE LISTING PATENT APPLICATION US/09/467,100

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					78	NPUT SET: S3529	06 raw
100	ACCCTTATTC	АТСССААТСТ	ATGTGCCAAA	ልልጥልጥጥርጥርር			2400
101			CATCAAACTT				2460
102			GAGAATACCA				2520
103			AGACAAATGG				2580
104			AAGTGCTCTG				2640
105			ACCAAAGTGG				2700
106			CAGGCCTTCT				2760
107			ACTATTAACA				2820
108			TGCCTTTGAA				2880
109			ACTTGGCAAG				2940
110			CACTGGGGAG				3000
111			CTTTGAAAGG				3060
112			GGGAGTGTGC				3120
113			TGGAAGTTTA				3180
114			GCAGTACACA				3240
115			CAGGGATCTG				3300
116			TTTTGGGTTA				3360
117			TGAAAGTCCC		-		3420
118			CTCAGATGTT				3480
119			TAAAAGTCCA				3540
120			CGTGTTCCAT				3600
121			CCCAGATGAG				3660
122			CTCCTTTAGG				3720
123			GAAATGACCT				3780
124			TGCTGTGGAC				3840
125			ATGTGAAAAT				3900
126			AGTAAAAGAC				3960
127			GTCAGTTAAC				4020
128			TTTGAGACCT				4020
129			ATGTATAGTT				4140
130			CACATGAGGG				4200
131			TAATTACTTC				4260
132			TCCTTGTTCA				4320
133			TTCCATGTAC				
134			GGAAATTTGC				4380
135			AAAAAAAAAA			TTTGAAATGA	4440
136	AACAAGCIIA	АААААААА	АААААААА	АААААААА	AG		4482
137	10) TNEODMATT	ON FOR SEO	TD NO.2.			
138	(2	2) INFORMALI	ION FOR SEQ	ID NO:2:			
139	/ 3 \ 6	POHENCE CH	\ D	7G -			
140		-	ARACTERISTIO 132 amino ao				
141		TYPE: amin		itas			
142							
142		STRANDEDNE					
143 144	(D)	TOPOLOGY:	TIHEAL				
144	(44)	MOT POTT P	DE. nontida				
145	(11)	MODECULE T	PE: peptide	;			
	/2 ± N	TMMDDIADE (OTBOR:				
147		IMMEDIATE S	OURCE:				
148 149		LIBRARY:					
149 150	(B)	CLONE:					
150 151							
TOT							

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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153																
154	Met	Glv	Met	Ala	Cvs	Leu	Thr	Met	Thr	Glu	Met	Glu	Glv	Thr	Ser	Thr
155	1	2			5					10			1		15	
156	Ser	Ser	Ile	Tvr	Gln	Asn	Glv	Asp	Ile	Ser	Glv	Asn	Ala	Asn		Met
157				20			2		25		2			30		
158	Lvs	Gln	Ile		Pro	Val	Leu	Gln		Tvr	Leu	Tvr	His		Len	Glv
159	-1-		35					40		-1-		-1-	45	501		
160	Lvs	Ser		Δla	Asp	Tvr	Leu		Phe	Pro	Ser	Glv		Tvr	Val	Glv
161	-1-	50				-1-	55				001	60		-1-	141	017
162	Glu		Tle	Cvs	Ile	Δla		Ser	Lvs	Δla	Cvs		Tle	Thr	Pro	Va l
163	65			-1-		70			-,,		75	017			110	80
164		His	Asn	Met	Phe		Leu	Met	Ser	Glu		Glu	Ara	Tle	Tro	
165	- 4				85					90			5		95	-1-
166	Pro	Pro	Asn	His	Val	Phe	His	Ile	Asp		Ser	Thr	Ara	His		Val
167				100					105					110		
168	Leu	Tyr	Arq	Ile	Arg	Phe	Tvr	Phe	Pro	Arq	Trp	Tvr	Cvs	Ser	Glv	Ser
169		•	115		_		•	120		•	-	•	125			
170	Asn	Arq	Ala	Tyr	Arg	His	Gly	Ile	Ser	Arq	Gly	Ala	Glu	Ala	Pro	Leu
171		130		-	•		135			•	•	140				
172	Leu	Asp	Asp	Phe	Val	Met	Ser	Tyr	Leu	Phe	Ala	Gln	Trp	Arq	His	Asp
173	145	-	-			150		•			155		-	J		160
174	Phe	Val	His	Gly	Trp	Ile	Lys	Val	Pro	Val	Thr	His	Glu	Thr	Gln	Glu
175				_	165		_			170					175	
176	Glu	Cys	Leu	Gly	Met	Thr	Val	Leu	Asp	Met	Met	Arg	Ile	Ala	Lys	Glu
177				180					185			_		190	_	
178	Asn	Asp	Gln	Thr	Pro	Leu	Ala	Ile	Tyr	Asn	Ser	Ile	Ser	Tyr	Lys	Thr
179			195					200					205			
180	Phe	Leu	Pro	Gln	Cys	Ile	Arg	Ala	Lys	Ile	${\tt Gln}$	Asp	Tyr	His	Ile	Leu
181		210					215					220				
182	Thr	Arg	Lys	Arg	Ile	Arg	Tyr	Arg	Phe	Arg	Arg	Phe	Ile	Gln	Gln	Phe
183	225					230					235					240
184	Ser	Gln	Cys	Lys	Ala	Thr	Ala	Arg	Asn	Leu	Lys	Leu	Lys	Tyr	Leu	Ile
185					245					250					255	
186	Asn	Leu	Glu		Leu	Gln	Ser	Ala		Tyr	Thr	Glu	Lys	Phe	Glu	Val
187		_		260					265					270		
188	Lys	Glu		Gly	Ser	Gly	Pro		Gly	Glu	Glu	Ile	Phe	Ala	Thr	Ile
189			275				. =	280	_				285			
190	Ile		Thr	Gly	Asn	Gly	_	Ile	Gln	Trp	Ser	_	Gly	Lys	His	Lys
191		290			_		295					300				_
192		Ser	Glu	Thr	Leu		Glu	Gln	Asp	Leu		Leu	Tyr	Cys	Asp	
193	305	_	1		_	310	_	_,	_		315	_				320
194	Pro	Asn	тте	тте	Asp	Val	Ser	IIe	Lys		Ala	Asn	GIn	GLu	_	Ser
195	3	~1	a	•	325	**- 7		-1-	•••	330	~1 ·		~7	_	335	_
196	Asn	GIU	ser		vaı	vaı	rnr	тте		га	GIn	Asp	GIA		Asn	Leu
197	a 1	~1 _	~1	340	G	a	.	3	345	. 1 -	.	a	D)	350		
198	GIU	тте		ьeu	Ser	ser	Leu		GIU	Ala	Leu	ser		vaı	ser	ьеи
199	т1.	7	355	Mr rac	TT	7~~	T 011	360	212	7 000	71-	TT i a	365	TT	T 0	G
200 201	TTE	370	GIY	TAL	Tyr	Arg	лец 375	TILL	ATG	Asp	AIG	380	uts	TÀL	ьец	cys
201	Lare		V2 1	Δla	Pro	Dro		17a 1	T.e.	Glu	λεν		@1 m	Co~	λαν	Cvc
203	385	-	val	Aia	210	390	AIG	val	neu.	GIU	395	116	G111	PET	von	400
204		Glv	Pro	Tle	Ser		Asp	Phe	Δla	Tle		Lve	T,e11	Taze	Tave	
205		1			405					410		7 5		-10	415	-1.LQ

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														IN	PUIS	E1: 535290.
206 207	Gly	Asn	Gln	Thr 420	Gly	Leu	Tyr	Val	Leu 425	Arg	Cys	Ser	Pro	Lys 430	Asp	Phe
208 209	Asn	Lys	Tyr 435	Phe	Leu	Thr	Phe	Ala 440	Val	Glu	Arg	Glu	Asn 445	Val	Ile	Glu
210 211	Tyr	Lys 450	His	Cys	Leu	Ile	Thr 455		Asn	Glu	Asn	Glu 460		Tyr	Asn	Leu
212	Ser	Gly	Thr	Lys	Lys	Asn		Ser	Ser	Leu	Lys		Leu	Leu	Asn	Cys
213	465			_		470					475					480
214	Tyr	Gln	Met	Glu		Val	Arg	Ser	Asp		Ile	Ile	Phe	Gln		Thr
215 216	Taze	Cys	Cve	Dro	485 Pro	Laze	Pro	Larg	λαν	490	802	N an	T 011	T OU	495	Pho
217	пуз	Cys	Cys	500	FIO	цуз	PIO	пуъ	505	пуъ	261	ASII	пец	510	vai	rne
218	Arq	Thr	Asn		Val	Ser	qaA	Val		Thr	Ser	Pro	Thr		Gln	Arq
219	•		515	•				520					525			3
220	Pro	Thr	His	Met	Asn	Gln	Met	Val	Phe	His	Lys	Ile	Arg	Asn	Glu	Asp
221		530					535					540				
222		Ile	Phe	Asn	Glu		Leu	Gly	Gln	Gly		Phe	Thr	Lys	Ile	
223	545	~ 1			_	550		~-3	_	_	555		_			560
224 225	_	Gly		_	565			_	_	570	-				575	
226 227	Glu	Val	Leu	Leu 580	Lys	Val	Leu	Asp	Lys 585	Ala	His	Arg	Asn	Tyr 590	Ser	Glu
228 229	Ser	Phe	Phe 595	Glu	Ala	Ala	Ser	Met 600	Met	Ser	Lys	Leu	Ser 605	His	Lys	His
230 231	Leu	Val 610	Leu	Asn	Tyr	Gly	Val 615	Cys	Val	Cys	Gly	Asp 620	Glu	Asn	Ile	Leu
232	Val	Gln	Glu	Phe	Val	Lys		Gly	Ser	Leu	Asp		Tyr	Leu	Lvs	Lvs
233	625					630		- 4			635		- 4 -		-4-	640
234	Asn	Lys	Asn	Cys	Ile	Asn	Ile	Leu	Trp	Lys	Leu	Glu	Val	Ala	Lys	${ t Gln}$
235		_		_	645		_			650					655	
236 237	Leu	Ala	Trp	Ala 660	Met	His	Phe	Leu	Glu 665	Glu	Asn	Thr	Leu	Ile 670	His	Gly
238 239	Asn	Val	Cys 675	Ala	Lys	Asn	Ile	Leu 680	Leu	Ile	Arg	Glu	Glu 685	Asp	Arg	Lys
240 241	Thr	Gly 690	Asn	Pro	Pro	Phe	Ile 695	Lys	Leu	Ser	Asp	Pro 700	Gly	Ile	Ser	Ile
242	Thr	Val	Leu	Pro	Lvs	Asp		Len	Gln	Glu	Ara		Pro	Tro	Val	Pro
243	705				_,_	710				O_u	715				•	720
244 245	Pro	Glu	Cys	Ile	Glu 725	Asn	Pro	Lys	Asn	Leu 730	Asn	Leu	Ala	Thr	Asp 735	Lys
246	Trp	Ser	Phe			Thr	Leu	Trp			Cys	Ser	Gly	_		Lys
247 248	Dro	T 011	e~~	740	T 011	7 an	C0**	C1-	745	T	T 011	~1 m	Dho	750	~1	3.50
249		Leu	755			_		760	_	_			765	_		_
250 251	Arg	His 770	Gln	Leu	Pro	Ala	Pro 775	Lys	Trp	Ala	Glu	Leu 780	Ala	Asn	Leu	Ile
252	Asn	Asn	Cys	Met	Asp	Tyr	Glu	Pro	Asp	Phe	Arg	Pro	Ser	Phe	Arg	Ala
253	785		_	_	_	790	_	_			795					800
254	Ile	Ile	Arg	Asp		Asn	Ser	Leu	Phe		Pro	Asp	Tyr	Glu		Leu
255 256	Thr	Glu	λc»	λ c.~	805 Mot	Lev	Dro	λ c.~	Mot	810	т1^	C1	λ1 ~	T 011	815	Dho
25 0 257	1111	GIU	vall	820	ושכנ	ьси	FIO	ASII	825	Arg	тте	GIÀ	ATG	830	GTÅ	FIIE
258	Ser	Gly	Ala		Glu	Asp	Arq	Asp		Thr	Gln	Phe	Glu		Arq	His
		-				-	_	-								

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